TABLE 1. LIST OF TECHNICAL, ADVISORY AND CITIZEN'S GROUP MEMBERS

Technical Group Members

Steve R. McNeal, Bureau of Water Pollution Control, Division of Health
Kent Miner, Salt Lake City-County Health Department
Marv Maxell, Assistant Director, Division of Health
Ken Bousfield, Assistant Director, Public Water Supplies, Division of Health
Kent P. Gray, Bureau of Solid & Hazardous Waste, Division of Health
Steven D. Taylor, Kennecott, UCD Environmental Director
Terry Vandell, Kennecott Environmental Affairs
George Condrat, Dames & Moore Consultants
Ric Jones, Dames & Moore Consultants
Joe Pearson, Intera Technologies
Ron Lantz, Intera Technologies

Advisory Group Members

Harry Gibbons, Director, Division of Environmental Health, Salt Lake City-County Health Department
Ken Alkema, Director, Utah State Division of Health
Robert A. Malone, Director, Kennecott Environmental Division

Other Agencies Involved (Informally)

Rob Walline, EPA Region VIII
Calvin Clyde, Utah State University, Water Research Laboratory
Tom Suchoski, State of Utah Natural Resources, Oil, Gas and Mining
Gary E. Christenson, State of Utah Natural Resources, Utah Geological and Mineral Survey
Galen Williams, South Jordan City (Bingham Engineering)
Terry Bailey, City of Riverton
Terry Way, Salt Lake County Flood Control and Water Quality

Representing	Name
West Jordan City	Betty G. Naylor
South Jordan	Richard Warne
Riverton	Terry Bailey
Herriman	J. Bryant Miller
Bluffdale	No designated representative
Copperton	No designated representative
County Commission	Bart Barker
Public Water Users	Robert B. Hilbert
Agriculture	Dale Bateman
Water Research Laboratory	Dr. Calvin Clyde
AWWA	Dr. Michael Miner

TABLE 2

LIST OF WATER QUALITY CONSTITUENTS TO BE ANALYZED

Parameter
pH[2]
Specific conductance[2]
Total dissolved solids
Total suspended solids
Aluminum
Arsenic
Barium
Cadmium
Chromium
Copper
Iron
Lead
Manganese
Mercury
Molybdenum
Calcium
Fluoride
Magnesium
Potassium
Sodium
Carbonate[2]
Bicarbonate[2]
Chloride
Nitrate (as N)
Sulfate
Alkalinity
Zinc
Selenium
Silver
Coliform bacteria[3]
Radium-226[5]
Gross Alpha[5]
Gross Beta[5]
Endrin[4]
Lindane[4]
Methoxychlor[4]
Toxaphene[4]
2,4-D[4]
2,4,5-TP Silvex[4]
Phenols (Phenolics, total Recoverable)[4]
Orthophosphate as P
Silica as Si02
Nickel
Hardness

Parameter
Acidity
Temperature °C
Total Organic Carbon (TOC)[3]
Total Organic Halogen (TOX)[4]

Footnotes:

(1) All units in mg/l unless otherwise noted.

(2) These parameters will be measured in the field.

(3) Coliform shall, after Round 1 sampling, only be monitored at sites: S-200, 354, 352, 21B; K-84, 100, 201; P-207a, 207b, 208a, 208b; W-41a, 189, 300, 301, 309, 310, 311, 312, 329, 333, 348, 361 (As agreed to by the Technical and Advisory Groups since Round 1 sampling showed insignificant concentrations and the fact that Kennecott's contaminants do not include this parameter).

(4) Analysis for organics, phenols, TOC and TOX were deleted after Round 1 analytical result evaluations by the Technical and Advisory Groups because of insignificant concentrations, and the fact that Kennecott's contaminants do not include these parameters.

(5) Radionuclides will be analyzed by CEP Laboratory, Santa Fe, New Mexico, which is EPA certified for such analysis. As agreed to by the Technical and Advisory Groups, radionuclides need only be analyzed at the following 38 sample sites: W31, W131A, W136, W151, W154, W164, W174, W176, W185, W189, W301, W310, W325, W326, W327, W328, K70, K105, K109, P192B, P198, P199, P207A, P213B,C, P239, S1, S21, S53, S200, S236, S237, S314, S317, S318, S320, S321, S354.

Kennecott has added the following sample sites to monitor for radionuclides: W361, W125, W311, W322, K201, P240A,B, P241A,B, P234, S324, S356, S352.

TABLE 3. LIST OF SAMPLE SITES TO MONITOR

	Private Well Sites		Well Use(s)[3]
	W22	J. Dansie[4]	D, Ir
	W27	Conoco Station[5]	A
(2)	W31	Copperton[4]	D
(1)	W41A	Bastian	D, Ir
	W107	Westland Hills #1?	Ir, D, St
	W108	Westland Hills #2?	Ir, D
(2)	W125	Nicoletti	K
(2)	W131A	C. Fassio[4]	D, St
	W131B	C. Fassio	D, St
	W134	O. Madsen[4]	D
(2)	W136	Garamedi (Riverton City Well)[4]	D
	W141	K. Motoki[4]	D
	W142	Bills	D, Ir
	W144	M. Jensen	D
	W146	D. Boulden[4]	D
(2)	W151	P. Schmidt[4]	D, Ir
	W152	O. J. Wilkinson[4]	D
	W153	F. E. Smith	D
(2)	W154	P. Groves[4]	D
	W155	W. Davis	A
	W162	Leo Palmer	D
(2)	W164	Garrett	D
	W167	Mulch Plant	D
	W173	Hamilton Feed & Livestock	D, Ir
(2)	W174	Gardiner[4]	D
(2)	W176	Peterson[4]	D
	W178	Gardner[4]	St
	W180	Fur Breeders[4]	D, St
	W182	Vance Beakstead[4]	D, St
(2)	W185	Herriman City[4]	D, Ir
(1,2)	W189	Interstate Brick[5]	D, In
(1)	W300	Fraughton[4]	D, Ir, St
(1,2)	W301	Anderson[4]	Ir, D, St
	W302	Naylor[4][5]	Ir
	W304	Farnsworth[4]	Ir, D, St
	W305	Tac	D, Ir
	W306	Gigi[4]	Ir
	W308	Tolbert	D
(1,6)	W309	L. R. Bateman[4]	D
(1,2,6)	W310	Bowles[4]	D
(1,2,6)	W311	Schouton[4]	D
(1,6)	W312	Tidwell[4]	D
(2)	W322	Brent Dansie	D
	W323	L. Wall[4]	D, Ir, St
(2)	W325	J. Holland[4]	D
(2)	W326	Hamilton (Riverton City Well)[4]	D
(2)	W327	Maynard (Riverton City Well)[4]	D
(2)	W328	Gedge (Riverton City Well)[4]	D

		Private Well Sites	Well Use(s)[3]
(1)	W329	A. Jensen (Webb)	D
	W331	Jay N. Butterfield[4]	D
	W332	Paul Solmonsen	D
(1)	W333	Thad Otley[4]	D
	W334	Bob Goldsmith[4]	D
	W335	Dick Kunz	D
	W336	Gary Larsen	D
	W337	Bill Ham[5]	D
	W338	Flossie Wells[5]	D
	W339	R. K. Petersen[4]	D
	W340	Harmon	D, Ir
	W341	Murray Fair Grounds[4]	D
	W342	Murray Fair Grounds[4]	D
	W345	D. H. Greenwood	D
	W346	Pine Hollow Tree Farm	D
	W347	D. H. Holtkamp	D
(1)	W348	Blaine Christensen	D
	W359	Hercules	D
	W360	Kelly Schultz	D
(1,2)	W361	West Jordan City Well[5]	D

Footnotes for W wells in addition to the comprehensive analysis in Table 4-1:

(1) Sample for coliform
(2) Sample for radionuclides (All new monitor wells will be sampled at least once for radionuclides)
(3) Well use codes, based on actual use or permitted use as per the Utah State Engineer's well log records. The first use code designates the key or current use for the wells.
    - Ir = Irrigation
    - D = Domestic
    - K = Kennecott Monitor Well
    - In = Industrial
    - A = Abandoned, not used
    - St = Stock Watering
(4) Well owners who have requested and received water quality data results on their wells.
(5) Will be sampled 3 times/yr., twice only for critical contaminant parameters (i.e. the field parameters, TDS, SO_4, Cu, Fe, Mn, Zn, Pb).
(6) These are generally sampled monthly as evaporation pond monitor wells.

	K & P Well Sites[6]
	K26
	K60
(2)	K70
	K72
(1)	K84[5]
(1)	K100
(2)	K105
	K106
(2)	K109
	K120

K & P Well Sites(6)

(1,2) K201
K349(5)
P190A
P190B
P191A
P191B
P192A
(2) P192B
P193A
P193B
P194A
P194B
P196A
P197A
P197B
(2) P198
(2) P199
P202C
(1,2) P207A
(1) P207B
(1) P208A
(1) P208B
P209B
P210B
P211A
P211B
P212A
P212B
(2) P213B
(2) P213C
P214A
P214B
P220
P225
P228
P231
(2) P234
(2) P239 replacement near old K67R
(2) P240A replacement near old P198A(5)
(2) P240B replacement near old P198B(5)
(2) P241A replacement near old P202B(5)
(2) P241B replacement near old P202C(5)

Footnotes in addition to the comprehensive analysis in Table 4-1:

(1) Sample for coliform
(2) Sample for radionuclides (All new monitor wells will be sampled at least once for radionuclides)
(5) These sites shall be sampled three times/year, twice only for the critical contaminant parameters (i.e. the field parameters, TDS, SO_4, Cu, Fe, Mn, Zn, Pb; to evaluate seasonal fluctuations, if any).
(6) Additional new wells will be sampled as these new monitor wells are constructed.

S Sites

(2)	S1	J. River 9000 S.
	S2	J. River 12300 S.(5)
(2)	S21	Butt. Creek above Lark Mine(5)
	S21A	Bingham Mine Portal Drain
(1)	S21B	Butt. Creek and Bingham Mine Portal
	S22A	Lark Town Spring
	S22B	Butt. Creek Spring
	S33	Provo Reservoir Canal 16150 S.
	S33A	Provo Reservoir Canal 9000 S.
	S38	J. River 10,600 S.
	S40	Old Scout Camp Spring
(2)	S53	U.S. Mine Butt. Creek Portal
	S54	J. River 6400 S.
	S56	N. Bingham Creek
	S57	J. River 8000 S.
	S166	J. River 14600 S.
(1,2)	S200	Bingham Reservoir(5)
(2)	S236	Leach Fluid
(2)	S237	Bingham Pit Waters
	S313	J. River 4800 S.
(2)	S314	N. Jordan Canal
	S315	Butt. & Midas Creek
	S316	Crystal Springs
(2)	S317	S. Kennecott Mine Dumps Drainage
(2)	S318	Barney's Springs
	S319	Maple Springs
(2)	S320	Dry Fork Creek
(2)	S321	Midas Creek
(2)	S324	6400 W. 14000 S. Rose Creek
	S330	J. River 9400 S.
	S343	1370 W. 7300 S. (Spring)
	S344	7560 S. 1200 W. (Spring)
	S350	Evaporation Ponds (3, 4, 5 (5)
	S351	40th West Pond
(1,2)	S352	S. Evaporation Ponds(5)
	S353	Small Reservoir
(1,2)	S354	Treated Mined Stream = old S238 designation
	S355	Nose & Mine Combo. Stream (untreated)
(2)	S356	80 acre pond
	S357	Jordan River eff.
	S358	Cemetery Pond

Footnotes in addition to the comprehensive analysis in Table 4-1:

(1) Sample for coliform
(2) Sample for radionuclides
(5) Will be sampled 3 times/year; once for comprehensive analysis twice for key contaminants only